



JP6335973

Biblio

Page 1



PRODUCTION OF FIBER REINFORCED RESIN LAMINATE

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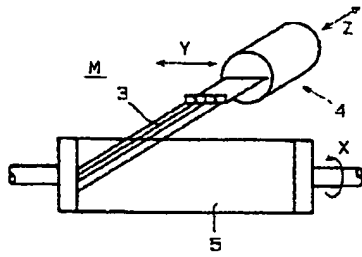
Abstract

PURPOSE: To prevent the occurrence of a cracking even in a thick-walled laminate by adding a fine magnetic material to a thermosetting resin impregnated continuous fiber used in a filament winding method and winding this continuous fiber having the magnetic material added thereto around the core mold and curing the wound fiber layer under heating using a high frequency induction heating device.

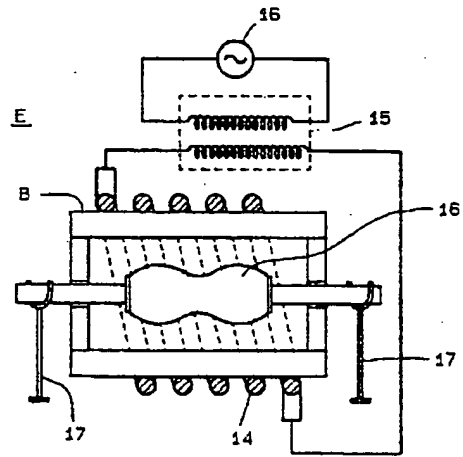
CONSTITUTION: A continuous fiber 3 is passed through an impregnation tank 2 filled with an uncured thermosetting resin 1a having particles or staple fibers composed of a magnetic material dispersed therein or the particles or staple fibers 6 of the magnetic material are bonded to the continuous fiber 3 passing through the impregnation tank 2 filled only with the uncured thermosetting resin 1b in a bonding tank 7. When this fiber is wound around a core mold 5 to be heated and cured by a high frequency induction heating device, the curing of inner and outer layer parts is uniformly advanced and no crack is caused in a laminate. Further, even if the high frequency induction heating device is used in the heating and curing of the wound layer of a non-magnetic continuous fiber coated with a metal, the same effect is obtained.

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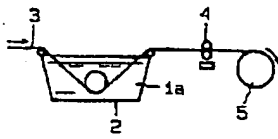
【図1】



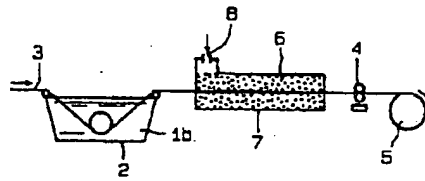
【図2】



【図3】



【図4】



【図5】

